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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,659	03/29/2004	Soon-Sung Yoo	8733.341.10-US	1134
30827	7590	05/03/2006	EXAMINER	
MCKENNA LONG & ALDRIDGE LLP 1900 K STREET, NW WASHINGTON, DC 20006				KIM, RICHARD H
		ART UNIT		PAPER NUMBER
		2871		

DATE MAILED: 05/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

P8

Office Action Summary	Application No.	Applicant(s)	
	10/810,659	YOO	
	Examiner	Art Unit	
	Richard H. Kim	2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 22 March 2006.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 19-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 19- 21 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on 29 March 2004 is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/22/06 has been entered.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wook (US 5,894,136) in view of Kim (US 6,043,511) and Suzuki et al. (US 5,844,255).

Wook discloses an array substrate for an active matrix type liquid crystal display device comprising a substrate (Fig. 6F, ref. 1); a gate line of the substrate, wherein the gate line includes a gate pad (Fig. 6F, ref. 4, col. 1, lines 49); a first insulating layer on the gate line and the substrate (6); a semiconductor layer on the first insulating layer and over a portion of the gate line (7); a date line over the first insulating layer and that crosses the gate line (9), the data line including a protruding portion that projects in a direction of the semiconductor layer and that forms a source electrode (9a), wherein an end portion of the semiconductor layer under the data

line coincides to an end portion of the data line (col. 4, lines 44-47), wherein the data line further includes a data pad (col. 1, line 50); a drain electrode spaced apart from the source electrode and extending in a rectangular region partially defined by the gate and data lines (9b); a passivation layer on the drain electrode, the passivation layer having a drain contact hole that exposes the drain electrode (10); and a pixel electrode formed over the passivation layer, the pixel electrode electrically connecting to the drain electrode via the drain contact hole (11). However, the reference does not disclose the device wherein the pixel electrode extends over a portion of the gate line so as to form a storage capacitor comprised of the pixel electrode, the gate line, and the first insulating layer, wherein the storage capacitor further includes a short-preventing part disposed between the pixel electrode and the gate line, wherein the storage capacitor further includes a short-preventing part disposed between the pixel electrode and the gate line that includes a semiconductor layer and the passivation layer.

Kim discloses a device wherein the pixel electrode extends over a portion of the gate line so as to form a storage capacitor (Fig. 10) comprised of the pixel electrode (70), the gate line (111), and the first insulating layer (20), wherein the storage capacitor further includes a short-preventing part disposed between the pixel electrode and the gate line, wherein the storage capacitor further includes a short-preventing part disposed between the pixel electrode and the gate line that includes a semiconductor layer (30) and the passivation layer (20).

It would have been obvious to one having ordinary skill in the art at the time the invention was made for the pixel electrode to extend over a portion of the gate line so as to form a storage capacitor comprised of the pixel electrode, the gate line, and the first insulating layer, wherein the storage capacitor further includes a short-preventing part disposed between the pixel

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electrode and the gate line, wherein the storage capacitor further includes a short-preventing part disposed between the pixel electrode and the gate line that includes a semiconductor layer and the passivation layer since one would be motivated to produce a display of high picture quality by providing a capacitor which would prevent leaking out of a signal before a second signal is applied.

Furthermore, Wook does not disclose that the data line is substantially the same width as and end portion of the data line.

Suzuki et al. discloses a device wherein the data line is substantially the same width as and end portion of the data line (col. 2, lines 60-65).

It would have been obvious to one having ordinary skill in the art at the time the invention was made for the data line to be is substantially the same width as and end portion of the data line since one would be motivated to limit an increase in power consumption (see col. 14, lines 65-67).

3. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Wook, Kim and Suzuki et al. in view of Han et al. (US 5,926,235).

Wook, Suzuki et al. and Kim disclose the device previously recited, but fails to disclose that the short-preventing part further includes an ohmic contact layer, and a conducting material between the semiconductor layer and the passivation layer.

Han et al. discloses a device wherein the short-preventing part includes an ohmic contact layer (112), and a conducting material between the semiconductor layer and the passivation layer (130).

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ an ohmic contact layer, and a conducting material between the semiconductor layer and the passivation layer since one would be motivated to reduce the number of masks used in the fabrication process (col. 2, lines 40-42).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard H. Kim whose telephone number is (571)272-2294. The examiner can normally be reached on 9:00-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on (571)272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Richard H Kim
Examiner
Art Unit 2871

RHK


ANDREW SCHECHTER
PRIMARY EXAMINER